



# SEQUENCE LISTING

<110> Max-Delbrück-Centrum für Molekulare Medizin

<120> Human and murine G-protein coupled EDG6 receptor  
(endothelial differentiation gene) and use of same

<130> 103130-3

<140> U.S. 09/786,926A

<141> 2001-05-04

<150> DE 198 43 240.2

<151> 1998-09-11

<150> DE 198 46 979.9

<151> 1998-10-13

<150> PCT/DE 99/02871

<151> 1999-09-10

<160> 16

<170> PatentIn Ver. 2.1

<210> 1

<211> 384

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: human  
G-protein-coupled EDG6 receptor

<400> 1

Met Asn Ala Thr Gly Thr Pro Val Ala Pro Glu Ser Cys Gln Gln Leu  
1 5 10 15

Ala Ala Gly Gly His Ser Arg Leu Ile Val Leu His Tyr Asn His Ser  
20 25 30

Gly Arg Leu Ala Gly Arg Gly Gly Pro Glu Asp Gly Gly Leu Gly Ala  
35 40 45

Leu Arg Gly Leu Ser Val Ala Ala Ser Cys Leu Val Val Leu Glu Asn  
50 55 60

Leu Leu Val Leu Ala Ala Ile Thr Ser His Met Arg Ser Arg Arg Trp  
65 70 75 80

Val Tyr Tyr Cys Leu Val Asn Ile Thr Leu Ser Asp Leu Leu Thr Gly  
85 90 95

Ala Ala Tyr Leu Ala Asn Val Leu Leu Ser Gly Ala Arg Thr Phe Arg  
100 105 110

Leu Ala Pro Ala Gln Trp Phe Leu Arg Glu Gly Leu Leu Phe Thr Ala  
115 120 125

Leu Ala Ala Ser Thr Phe Ser Leu Leu Phe Thr Ala Gly Glu Arg Phe  
 130 135 140  
 Ala Thr Met Val Arg Pro Val Ala Glu Ser Gly Ala Thr Lys Thr Ser  
 145 150 155 160  
 Arg Val Tyr Gly Phe Ile Gly Leu Cys Trp Leu Leu Ala Ala Leu Leu  
 165 170 175  
 Gly Met Leu Pro Leu Leu Gly Trp Asn Cys Leu Cys Ala Phe Asp Arg  
 180 185 190  
 Cys Ser Ser Leu Leu Pro Leu Tyr Ser Lys Arg Tyr Ile Leu Phe Cys  
 195 200 205  
 Leu Val Ile Phe Ala Gly Val Leu Ala Thr Ile Met Gly Leu Tyr Gly  
 210 215 220  
 Ala Ile Phe Arg Leu Val Gln Ala Ser Gly Gln Lys Ala Pro Arg Pro  
 225 230 235 240  
 Ala Ala Arg Arg Lys Ala Arg Arg Leu Leu Lys Thr Val Leu Met Ile  
 245 250 255  
 Leu Leu Ala Phe Leu Val Cys Trp Gly Pro Leu Phe Gly Leu Leu Leu  
 260 265 270  
 Ala Asp Val Phe Gly Ser Asn Leu Trp Ala Gln Glu Tyr Leu Arg Gly  
 275 280 285  
 Met Asp Trp Ile Leu Ala Leu Ala Val Leu Asn Ser Ala Val Asn Pro  
 290 295 300  
 Ile Ile Tyr Ser Phe Arg Ser Arg Glu Val Cys Arg Ala Val Leu Ser  
 305 310 315 320  
 Phe Leu Cys Cys Gly Cys Leu Arg Leu Gly Met Arg Gly Pro Gly Asp  
 325 330 335  
 Cys Leu Ala Arg Ala Val Glu Ala His Ser Gly Ala Ser Thr Thr Asp  
 340 345 350  
 Ser Ser Leu Arg Pro Arg Asp Ser Phe Arg Gly Ser Arg Ser Leu Ser  
 355 360 365  
 Phe Arg Met Arg Glu Pro Leu Ser Ser Ile Ser Ser Val Arg Ser Ile  
 370 375 380

<210> 2  
 <211> 1155  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: human edg6  
 cDNA

<400> 2  
 atgaacgcca cggggacccc ggtggccccc gagtcctgcc aacagctggc ggccggcggg 60  
 cacagccggc tcattgttct gcactacaac cactcggggc ggctggccgg gcgcgggggg 120  
 ccggaggatg gcggcctggg ggccctgctg gggctgtcgg tggccgccag ctgcctgggtg 180  
 gtgctggaga acttgctggt gctggcggcc atcaccagcc acatgcggtc gcgacgctgg 240  
 gtctactatt gcctggtgaa catcacgctg agtgacctgc tcacggggcg gccctacctg 300  
 gccaacgtgc tgctgtcggg ggcccgcacc ttccgtctgg cggccgccc gtggttccta 360  
 cgggagggcc tgctcttcac cgccctggcc gcctccacct tcagcctgct cttactgca 420  
 ggggagcgct ttgccaccat ggtgcggccg gtggccgaga gcggggccac caagaccagc 480  
 cgcgtctacg gcttcacggt cctctgctgg ctgctggccg cgctgctggg gatgctgcct 540  
 ttgctgggct ggaactgcct gtgcgccttt gaccgctgct ccagccttct gcccctctac 600  
 tccaagcgct acatcctctt ctgcctgggt atcttcgccg gcgtcctggc caccatcatg 660  
 ggctctatg gggccatctt ccgcctgggt caggccagcg ggcagaaggc cccacgccc 720  
 gcggcccgcc gcaaggcccg ccgcctgctg aagacggtgc tgatgatcct gctggccttc 780  
 ctggtgtgct ggggcccact cttcgggctg ctgctggccg acgtcttttg ctccaacctc 840  
 tgggcccagg agtacctgcg gggcatggac tggatcctgg ccctggccgt cctcaactcg 900  
 gcggtcaacc ccatcatcta ctcttccgc agcaggaggg tgtgcagagc cgtgctcagc 960  
 ttctctgct gcgggtgtct ccggctgggc atgcgagggc ccggggactg cctggcccgg 1020  
 gccgtcgagg ctactccgg agcttccacc accgacagct ctctgaggcc aaggacagc 1080  
 ttccgcggt cccgctcgct cagctttcgg atgcgggagc ccctgtccag catctccagc 1140  
 gtgcggagca tctga 1155

<210> 3  
 <211> 1161  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: murine edg6  
 cDNA

<400> 3  
 atgaacatca gtacctgggt cagctgggtg accccagagt cctgccaccg gctggcagcc 60  
 agcggccaca gcctcctcat tgtcctgcac tacaatcaca gcggcaggct ggccagccgc 120  
 gggggctctg aggacggtgg agggctaggg atgctgaggg ggccgtcggg ggccgcagggt 180  
 tgcttggtgg tgctggagaa cgccatggtg ctggccgcca tcgccatcta catgcggtcc 240  
 cgccgctggg tgtactactg cctgctgaac atcacactga gtgacctgct cacaggcctg 300  
 gcctacgtgg tcaacgtgct gctgtcaggg actcgtaact tccagctgtc accggtgcac 360  
 tggttcctgc gggagggcct gctcttcatg gccttggccg catccacctt cagtctgctc 420  
 ttacaggccg gcgagcgctt cgccaccatg gtgcgggtgg ctgagagtgg ggccaccaag 480  
 accagccgtg tgtatggctg catcggtctg tgctggctac tggcagctat cctgggcctg 540  
 ctgcccctgc tgggctggaa ctgtgtgtgc gccttcccac gctgtctcag cctgctgccc 600  
 ctctactcca agggctatgt gctcttttgt gtggtggtct tcgccctcat cctagtggct 660  
 atcctgagcc tctacggggc catctttaga gtggtccgag ccaatgggca gaagtctcca 720  
 cgctcctctg cccgcgcgaa gtcccgcagg ctactcaaca ccgtgctgat gatcttggtg 780  
 gcctttgtgg tgtgtggggg tcccctgttt ggctgctcc tggctgacat ctttggttct 840  
 aatgtctggg ccaggaagta cctgcgtggc atggactgga tctggccct ggccgtgttc 900  
 aactcagcca ttaactctct catctactcc ttccgcagcc gtgaggtgca gcgcgctgtg 960  
 ctggccttcc tgtgctgcgg ctgtctctgg ctaggctctgc gaggtccagg agactgcctg 1020

acccggatca ccgaggccca ctccggtgca tccaccactg acagctccct gaggcccagg 1080  
 gacagttttc ggactttctcg gtcactcagc ttcaggatga gagagccgct gtccagcatt 1140  
 tccagcgtcc gcagcaccta g 1161

<210> 4

<211> 386

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: murine  
 G-protein-coupled EDG6 receptor

<400> 4

Met Asn Ile Ser Thr Trp Ser Thr Leu Val Thr Pro Glu Ser Cys His  
 1 5 10 15

Arg Leu Ala Ala Ser Gly His Ser Leu Leu Ile Val Leu His Tyr Asn  
 20 25 30

His Ser Gly Arg Leu Ala Ser Arg Gly Gly Ser Glu Asp Gly Gly Gly  
 35 40 45

Leu Gly Met Leu Arg Gly Pro Ser Val Ala Ala Gly Cys Leu Val Val  
 50 55 60

Leu Glu Asn Ala Met Val Leu Ala Ala Ile Ala Ile Tyr Met Arg Ser  
 65 70 75 80

Arg Arg Trp Val Tyr Tyr Cys Leu Leu Asn Ile Thr Leu Ser Asp Leu  
 85 90 95

Leu Thr Gly Leu Ala Tyr Val Val Asn Val Leu Leu Ser Gly Thr Arg  
 100 105 110

Thr Phe Gln Leu Ser Pro Val His Trp Phe Leu Arg Glu Gly Leu Leu  
 115 120 125

Phe Met Ala Leu Ala Ala Ser Thr Phe Ser Leu Leu Phe Thr Ala Gly  
 130 135 140

Glu Arg Phe Ala Thr Met Val Arg Val Ala Glu Ser Gly Ala Thr Lys  
 145 150 155 160

Thr Ser Arg Val Tyr Gly Cys Ile Gly Leu Cys Trp Leu Leu Ala Ala  
 165 170 175

Ile Leu Gly Leu Leu Pro Leu Leu Gly Trp Asn Cys Val Cys Ala Phe  
 180 185 190

Pro Arg Cys Ser Ser Leu Leu Pro Leu Tyr Ser Lys Gly Tyr Val Leu  
 195 200 205

Phe Cys Val Val Val Phe Ala Leu Ile Leu Val Ala Ile Leu Ser Leu  
 210 215 220

Tyr Gly Ala Ile Phe Arg Val Val Arg Ala Asn Gly Gln Lys Ser Pro

225		230		235		240									
Arg	Pro	Pro	Ala	Arg	Arg	Lys	Ser	Arg	Arg	Leu	Leu	Asn	Thr	Val	Leu
				245					250					255	
Met	Ile	Leu	Val	Ala	Phe	Val	Val	Cys	Trp	Gly	Pro	Leu	Phe	Gly	Leu
			260					265					270		
Leu	Leu	Ala	Asp	Ile	Phe	Gly	Ser	Asn	Val	Trp	Ala	Gln	Glu	Tyr	Leu
		275					280					285			
Arg	Gly	Met	Asp	Trp	Ile	Leu	Ala	Leu	Ala	Val	Phe	Asn	Ser	Ala	Ile
	290					295					300				
Asn	Pro	Leu	Ile	Tyr	Ser	Phe	Arg	Ser	Arg	Glu	Val	Gln	Arg	Ala	Val
305				310						315					320
Leu	Ala	Phe	Leu	Cys	Cys	Gly	Cys	Leu	Trp	Leu	Gly	Leu	Arg	Gly	Pro
				325					330					335	
Gly	Asp	Cys	Leu	Thr	Arg	Ile	Thr	Glu	Ala	His	Ser	Gly	Ala	Ser	Thr
			340					345					350		
Thr	Asp	Ser	Ser	Leu	Arg	Pro	Arg	Asp	Ser	Phe	Arg	Thr	Ser	Arg	Ser
		355					360					365			
Leu	Ser	Phe	Arg	Met	Arg	Glu	Pro	Leu	Ser	Ser	Ile	Ser	Ser	Val	Arg
	370					375					380				
Ser	Thr														
385															

<210> 5  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Sequence of PCR Primer R1

<400> 5

ccg gat ccg cvt dvt sgg maa ykb vyt sgt

30

<210> 6  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Sequence of PCR Primer R3

<400> 6

cgg gat ccg aar gyr tas ads adr ggr tt

29

<210> 7  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Sequence of PCR Primer 5'hGSPRT  
  
 <400> 7  
  
 ttg gag cca aag acg tcg gcc 21  
  
 <210> 8  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Sequence of PCR Primer 5'hGSP1  
  
 <400> 8  
  
 agg cag aag agg atg tag cgc 21  
  
 <210> 9  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Sequence of PCR Primer 5'hGSP2  
  
 <400> 9  
  
 gcg ctc ccc tgc agt gaa gag 21  
  
 <210> 10  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Sequence of PCR Primer 3'hGSP1  
  
 <400> 10  
  
 agt gac ctg ctc acg ggc gcg 21  
  
 <210> 11  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Sequence of PCR Primer 3'hGSP2

<400> 11  
 ctc ttc act gca ggg gag cgc 21

<210> 12  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Sequence of PCR Primer 5'mGSPRT

<400> 12  
 ctc acc tcg tct ggg agg gcc tgc 24

<210> 13  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Sequence of PCR Primer 5'mGSP1

<400> 13  
 tgg gca act ggc tgg tcc aag ctc 24

<210> 14  
 <211> 49  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Sequence of PCR Primer 5'mGSP2

<400> 14  
 gcc tcg ggc cca gat cct cca ggg gtg ctg cgg acg ctg gaa atg ctg  
 g 49

<210> 15  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Sequence of 3' primer

<400> 15  
 cca cgt cct cct gcc cgc cgc 21

<210> 16  
<211> 21  
<212> DNA  
<213> Artificial Sequence  
<220>  
<223> Sequence of CA primer

<400> 16

cca cgt cct cct gcc cgc cgc

21